

FILEID**CONFIGURE

F 16

CCCCCCCC	000000	NN	NN	FFFFFF	IIIIII	GGGGGGGG	UU	RRRRRRRR	EEEEEEEEE
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CC	00	00	NN	NN	FF	GG	UU	RR	RR
CC	00	00	NNNN	NN	FF	GG	UU	RR	RR
CC	00	00	NNNN	NN	FF	GG	UU	RR	RR
CC	00	00	NN NN	NN	FFFF	GG	UU	RRRRRRRR	EEEEEEEEE
CC	00	00	NN NN	NN	FFFF	GG	UU	RRRRRRRR	EEEEEEEEE
CC	00	00	NN NNNN	FF	II	GG	UU	RR RR	EE
CC	00	00	NN NNNN	FF	II	GG	UU	RR RR	EE
CC	00	00	NN NNNN	FF	II	GG	UU	RR RR	EE
CC	00	00	NN NN	FF	II	GG	GG	RR RR	EE
CC	00	00	NN NN	FF	II	GG	GG	RR RR	EE
CCCCCCCC	000000	NN	NN	FF	IIIIII	GGGGGG	UUUUUUUUUU	RR RR	EEEEEEEEE
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LL	IIIIII	SSSSSSSS
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LL	II	SS
LL	II	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

(1)	140	CONFIGURE - Configure devices
(1)	240	FOUND PROC - A process has been found by the poller
(1)	308	PROCESS_MSG - Do the work of configuring the device
(1)	399	BLDNAME
(1)	447	EXIT_HANDLER

```
0000 1 .TITLE CONFIGURE - PROCESS TO DYNAMICALLY CONFIGURE DEVICES
0000 2 .IDENT 'V04-000'
0000 3 :*****
0000 4 :*****
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0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :*
0000 27 :++
0000 28 :*
0000 29 : Facility: System configuration
0000 30 :*
0000 31 : Abstract: CONFIGURE is used to dynamically configure VAX MSCP-served and HSC-
0000 32 : served disks and tapes.
0000 33 :*
0000 34 : Environment: It is run as a process, in user, exec and kernel modes.
0000 35 :*
0000 36 : Author: Maryann Hinden, Creation date: 02-JUN-1983
0000 37 :*
0000 38 : Modification History:
0000 39 :*
0000 40 : V03-004 WHM0001 Bill Matthews 11-Apr-1984
0000 41 : Purge working set before hibernating.
0000 42 :*
0000 43 : V03-003
0000 44 : Change value in B00$GL_CONADP to indicate noadapter.
0000 45 :*
0000 46 : V03-002 WMC0001 Wayne Cardoza 11-Aug-1983
0000 47 : Polling must be reenabled in kernel mode.
0000 48 :*
0000 49 : V03-001 MSH0001 Maryann Hinden 14-Jul-1983
0000 50 : Add jacket routine B00$CONFIGMN to image, and
0000 51 : remove some code.
0000 52 :--
0000 53 :*
0000 54 : Include files:
0000 55 :*
0000 56 : $ACFDEF ; Define autoconfiguration block
0000 57 :*
```

```

        0000  58      $IODEF
        0000  59      $IPLDEF
        0000  60      $LCKDEF
        0000  61      $PRCPOLDEF
        0000  62      $SBDEF
        0000  63      $SSDEF
        0000  64      $SYSMSGDEF
        0000  65
        0000  66
        0000  67      : Equated Symbols
        0000  68
        0000123 0000  69 WRTATNFLG = <IOS_SETMODE!IOSM_WRTATTN>
        00000071 0000  70 READFLG  = <IOS_READVBLK!IOSM_NOW>
        00000000 0000  71 SERVER = 0      : Offsets into process info block
        00000010 0000  72 DEVICE  = 16
        00000012 0000  73 DRIVER  = 18
        0000001B 0000  74 SPPB    = 27
        0000  75
        0000  76
        0000  77
        0000  78      : Macros
        0000  79
        0000  80      .MACRO PRCINFO SERVER,DEVICE,DRIVER      ; Builds process info table
        0000  81
        0000  82      .PSECT INFO_BLOCK                  ; Actual data area
        0000  83
        0000  84 $SERVERNAME$ = .
        0000  85     .ASCII  /
        0000  86 $NAMEND$ =
        0000  87 . = $SERVERNAME$
        0000  88     .ASCII  /SERVER/
        0000  89 . = $NAMEND$ 
        0000  90     .ASCII  /DEVICE/
        0000  91     .ASCII  /DRIVER/
        0000  92     .LONG   0
        0000  93
        0000  94      .PSECT INFO_PTR
        0000  95
        0000  96      .LONG   $SERVERNAME$                ; A list of pointers to the data
        0000  97
        0000  98      .ENDM
        0000  99
        0000100 0000 100 : Own Storage
        0000 101
        0000 102      .PSECT INFO_PTR
        0000 103
        0000 104 PROC_INFO:
        0000 105      PRCINFO MSCP$DISK,DU,DUDRIVER
        0004 106      PRCINFO MSCP$TAPE,MU,TUDRIVER      ; Build the process info table
        0008 107
        00000008 0008 108      .PSECT INFO_PTR
        00000000 0008 109      .LONG   0
        0000001C 000C 110      .BLKL   4
        001C 111
        0000003E 003E 112      .PSECT INFO_BLOCK
        000000BA 003E 113      .BLKB   <SPPB+4>*4
        00BA 114

```

00000000	115	PSECT	NONPAGED	DATA,NOEXE,WRT	
00000016 0000	116	FULL_NAME:	.BLKB	22	: Storage area for cluster dev name
0000001B 0016	117	DEVNAME:	.BLKB	5	: Storage area for short dev name
001B	118				
00000000 001B	119	EXIT_BLOCK:	.LONG	0	: Data block for exit handler
00000251 001F	120		.LONG	EXIT_HANDLER	
00000001 0023	121		.LONG	1	
0000002B 0027	122		.LONG	EXIT_STATUS	
0000002F 002B	123	EXIT_STATUS:	.BLKL	1	
002F	124				
00000033 002F	125	KARGLST:	.LONG	SPPBARG	: Argument list for CANCEL_POLL
00000000 0033	126	SPPBARG:	.LONG	0	: kernel mode routine
0037	127				
00000038 0037	128	MSGBUFSIZ:	.LONG	PRCPOL\$C_SIZ	: Buffer used by mailbox read
00000073 003B	129	MSGBUF:	.BLKB	PRCPOL\$C_SIZ	
0073	130				
0000 0073	131	MBXCHAN:	.WORD	0	: Mailbox I/O channel
0000007D 0075	132	STATUS_BLOCK:	.BLKL	2	: I/O completion status block
007D	133				
00000000	134	PSECT	PAGED_CODE,EXE,WRT		
0000	135	PURGE_LIMITS:			
00000000 0000	136		.LONG	0	: Limits for purge working set
7FFFFFFF 0004	137		.LONG	^X7FFFFFFF	: Purge all of P0 and P1
0008	138				

0008 140 .SBTTL CONFIGURE - Configure devices
0008 141 :++
0008 142
0008 143 PURPOSE
0008 144 To start polling on cluster members in order to find out about
0008 145 HSC- and MSCP-served devices on other systems.
0008 146
0008 147 INPUT
0008 148 None
0008 149
0008 150 OUTPUT
0008 151 None
0008 152
0008 153 FUNCTIONAL DESCRIPTION
0008 154 This routine requests polling on all systems in the cluster
0008 155 for all processes described in the process information table.
0008 156 The process poller communicates with the CONFIGURE process via
0008 157 a mailbox. Once the polling requests have been sent out, a
0008 158 write attention AST to the mailbox is issued, and the routine
0008 159 hibernates waiting for input.
0008 160
0008 161 In order to cancel polling (and clean up properly) if the image
0008 162 should terminate abnormally, this routine declares an exit handler.
0008 163 :--
0008 164
001C 0008 165 .ENTRY BOOS\$CONFIGURE, ^M<R2,R3,R4>
000A 166
000A 167
000A 168 Create mailbox used to communicate with process poller
000A 169:
000A 170 \$CREMBX_S prmflg = #1,-
000A 171 chan = MBXCHAN,-
000A 172 promsk = #^XFF00
60 50 E9 0025 173 BLBC R0,10\$
0028 174
0028 175:
0028 176 Declare exit handler to be used when image exits
0028 177:
50 50 E9 0028 178 \$DCLEXH_S desblk = EXIT_BLOCK
0035 179 BLBC R0,10\$
0038 180
0038 181:
0038 182 Now request polling on all processes
0038 183:
3E 50 E9 0038 184 \$CMKRNL_S REQ_POLL,(AP)
0047 185 BLBC R0,10\$
004A 186
004A 187:
004A 188 We are finished requesting polling. Now set a write attention AST
004A 189 and hibernate while waiting for responses from the poller.
004A 190 (We assume that at least one call to SC\$POLL_MBX was successful).
004A 191:
004A 192 \$QIO_S chan = MBXCHAN,-
004A 193 func = #WRTATNFLAG,-
004A 194 p1 = FOUND PROC,-
004A 195 p2 = PROC_INFO
12 50 E9 0073 196 BLBC R0,10\$

```

        0076 197
        0076 198      SPURGWS_S inadr = PURGE_LIMITS ; minimize system resources
        0080 199      SHIBER_S
        04  0087 200      RET
        0088 201
        0088 202
        0088 203
        0088 204 : An error occurred on the create mailbox, when calling the process
        0088 205 : poller, or when issuing the QIO. Send out the error message and terminate.
        0088 206 : The exit handler (if declared at this point) will clean up.
        0088 207
50   007C8132 8F, D0 0088 208 10$: MOVL #SYSGS_CONFIGERR,R0
      FF6E' 30 008F 209 BSBW PUTERRR
        04 0092 210      SEXIT_S
        009B 211      RET
        009C 212
        009C 213 : Request polling on all processes we want to know about
        009C 214
        0000 009C 215 REQ_POLL: .WORD 0
        009E 216
53   00000073'EF 3C 00A1 217      SETIPL #IPL$_ASTDEL
54   00000000'EF 9E 00A8 218      MOVZWL MBXCHAN,R3      : Get channel address
      52 84  D0 00AF 219      MOVAB  PROC_INFO,R4      : Get top of process table
        00B2 220      MOVL  (R4)+,R2      : Get address of first process name
        50 53  D0 00B2 221
        00000000'EF 16 00B5 222 10$: MOVL R3,R0      : Channel # in R0 is arg to call
        00BB 223      JSB   SC$POLL_MBX      : Request polling for this process
        00BB 224
        00BB 225
        00BB 226 : R1 contains address of SPPB - need later to cancel polling
        00BB 227 : R2 is preserved and points to process info block
        00BB 228
        0C 50  E9 00BB 229      BLBC  R0,20$
1B A2 51  D0 00BE 230      MOVL  R1,SPPB(R2)      : Save SPPB
        52 84  D0 00C2 231      MOVL  (R4)+,R2      : Get next process name
        EB 12  00C5 232      BNEQ  10$      : If NEQ, poll for it
        50 01  9A 00C7 233      MOVZBL #SS$_NORMAL,R0      : Indicate success
        00CA 234
        00CA 235 20$: SETIPL #0      : Lower IPL
        04 00CD 236      RET      : Return error to caller
        00CE 237
        238

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 00CE 240      .SBTTL FOUND_PROC - A process has been found by the poller
 00CE 241      ++
 00CE 242      PURPOSE
 00CE 243      Routine which is called when the process poller mailbox has been
 00CE 244      written into.
 00CE 245
 00CE 246
 00CE 247      INPUT
 00CE 248      Mailbox messages - implicit
 00CE 249
 00CE 250      OUTPUT
 00CE 251      Processed messages
 00CE 252
 00CE 253      FUNCTIONAL DESCRIPTION
 00CE 254      This routine is called at AST level. It first re-enables the
 00CE 255      write attention AST for the mailbox. It then reads and processes
 00CE 256      messages until there are none left.
 00CE 257
 00CE 258      ;--+
 00CE 259
 007C 00CE 260      .ENTRY FOUND_PROC, ^M<R2,R3,R4,R5,R6>
 00DO 261
 00DO 262
 00DO 263      : Before doing anything else, we requeue the write attention AST request
 00DO 264
 00DO 265      $QIO_S chan = MBXCHAN,-
 00DO 266      func = #WRTATNFLAG,-
 00DO 267      p1 = FOUND PROC,-
 00DO 268      p2 = PROC_INFO
 47 50   E9 00F6 269      BLBC R0,30$
 00F9 270
 00F9 271
 00F9 272      : Now, read mailbox messages until there are none left
 00F9 273
 00F9 274      i0$: $QIO_S chan = MBXCHAN,-
 00F9 275      func = #READFLG,-
 00F9 276      iosb = STATUS_BLOCK,-
 00F9 277      p1 = MSGBUF,-
 00F9 278      p2 = MSGBUFSIZ
 54    00000075'EF 2B 50   E9 0126 279      BLBC R0,40$           : Get address of status block
 0870 8F       9E 0129 280      MOVAB STATUS_BLOCK,R4        : Have we read all the msgs?
 64       B1 0130 281      CMPW (R4),#555_ENDOFFILE     : If EQL, yes
 08       13 0135 282      BEQL 20$                         : If LBC, then some sort of error
 1A       64 0137 283      BLBC (R4),40$                   : Else the poller found something
 0022 30       013A 284      BSBW PROCESS_MSG            : Look for more messages
  BA       11 013D 285      BRB 10$                         :
 013F 286
 04       013F 287      20$: RET
 0140 288
 0140 289
 0140 290      : An error has occurred when trying to requeue the write attention AST.
 0140 291      : Have the image exit.
 0140 292
 0140 293      30$: 
 50    007C8132 8F       D0 0140 294      MOVL #SYSGS_CONFIGERR,R0
 FEB6'       30 0147 295      BSBW PUTERROR
 014A 296      SEXIT_S

```

04 0153 297 RET
0154 298
0154 299
0154 300 : An error has occurred when reading the mailbox message. Send out the
0154 301 : error message and dismiss the AST.
0154 302
C154 303 40\$:
50 007C8132 BF DO 0154 304 MOVL #SYSG\$ CONFIGERR, R0
FEA2' 30 015B 305 BSBW PUTERRR
04 015E 306 RET

			015F	308	.SBTTL PROCESS_MSG - Do the work of configuring the device
			015F	309	++
			015F	310	PURPOSE
			015F	311	Workhorse routine to actually configure the device database
			015F	312	for the server which has been found.
			015F	313	INPUT
			015F	314	MSGBUF - contains the actual message
			015F	315	OUTPUT
			015F	316	Configured device and driver
			015F	317	FUNCTIONAL DESCRIPTION
			015F	318	This routine uses the node name (contained in the message) together
			015F	319	with the information associated with the server process name to
			015F	320	construct a cluster device name. It then calls the connect code
			015F	321	to actually construct the device database and load the class driver.
			015F	322	--
			015F	323	PROCESS_MSG:
			015F	324	PUSHR #^M<R2,R3,R4,R5,R6> ; Save registers touched here
007C 8F BB	00000000'EF 00 FB		015F	325	CALLS #0,BOOS\$CONRESET ; Reset connect information
			016A	326	
			016A	327	
			016A	328	
			016A	329	
			016A	330	
			016A	331	
			016A	332	
			016A	333	
			016A	334	
			016A	335	
56 0000003B'EF 9E	016A	336	MOVAB MSGBUF,R6 ; Get address of message buffer		
54 00000000'EF 9E	0171	337	MOVAB PROC_INFO,R4 ; Get address of process information		
	0178	338			
55 84 D0	0178	339	10\$: MOVL (R4)+,R5 ; Get next entry		
58 58 13	017B	340	BEQL 20\$; If EQL, no more entries & no match		
18 A6 65 10	017D	341	CMPC3 #16, SERVER(R5), PRCPOL\$B_PRCNAM(R6) ; Compare		
F4 ?	0182	342	BNEQ 10\$; If NEQ, try next one		
	0184	343			
	0184	344			
	0184	345			
	0184	346			
	0184	347			
00000000'EF 01 CE	0184	348	MNEGL #1,BOOS\$GL_CONADP ; Don't use an adapter		
00000000'EF D4	018B	349	CLRL BOOS\$GL_CONCUNIT ; Unit number always 0		
00000000'EF D4	0191	350	CLRL BOOS\$GL_CONAUNIT ; Same for adapter unit		
00000000'EF 66 7D	0197	351	MOVQ PRCPOL\$L_SYSIDL(R6), BOOS\$GQ_CONSYSID ; Save the sys ID from msg		
00000000'EF 12 A5	019E	352	MOVAB DRIVER(R5), BOOS\$GL_CONDRV ; Save the driver name from proc_info		
52 08 A6 9E	01A0	353	MOVAB PRCPOL\$T_NODNAME(R5), R2 ; Get node name arg from msg		
	01AA	354	PUSHR #^M<R5> ; Save pointer to proc_info		
55 10 A5 9E	01AC	355	MOVAB DEVICE(R5), R5 ; Get device name arg from proc_info		
55 10 01B0	01B0	356	BSBB BLDNAME ; Construct the cluster device name		
20 BA	01B2	357	POPR #^M<R5> ; Restore		
	01B4	358			
	01B4	359			
	01B4	360			
	01B4	361			
	01B4	362			
00000000'EF 12 00 FB	01B4	363	CALLS #0,BOOS\$CONNECT		
12 50 EB	01BB	364	BLBS R0,15\$		

OC 50 E9 01BE 365 SCMKRNL_S ROUTIN = 30\$; Polling must be turned on from K mode
01CD 366 BLBC R0,25\$
01DD 367
01DD 368
01DD 369 : All done
01DD 370
007C 8F BA 01DD 371 15\$: POPR #^M<R2,R3,R4,R5,R6> ; Restore registers touched here
05 01D4 372 RSB
01D5 373
01D5 374
01D5 375 : There was no process name match - we got a spurious mailbox message
01D5 376
01D5 377 20\$:
50 007C8132 8F D0 01D5 378 MOVL #SYSG\$ CONFIGERR,R0
FE21 30 01DC 379 25\$: BSBW PUTERROR
007C 8F BA 01DF 380 POPR #^M<R2,R3,R4,R5,R6> ; Restore registers touched here
05 01E3 381 RSB
01E4 382
01E4 383
01E4 384 : There was an error connecting the device - CONNECT already let the
01E4 385 world know.
01E4 386
01E4 387 30\$:
52 66 0000 01E4 388 .WORD 0
1B A5 D0 01E6 389 MOVAB PRCPOL\$L_SYSIDL(R6),R2 ; Get system ID
50 01 9A 01E9 390 MOVL SPPB(R5),R1 ; Get SPPB
00000000'GF 16 01F0 391 MOVZBL #1,R0 ; Re-enable polling
07 50 E8 01FC 392 SETIPL #IPL\$ SCS ; Raise IPL
04 0206 393 JSB G^SCS\$POLL_MODE ; Request polling again
04 0206 394 SETIPL #IPL\$ ASTDEL ; Restore IPL
50 007C813A 8F D0 01FF 395 BLBS R0,35\$
04 0206 396 MOVL #SYSG\$_CANTPOLL,R0 ; Indicate unable to restart poll on
397 35\$: RET

```

0207 399      .SBTTL BLDNAME
0207 400      ++
0207 401      PURPOSE
0207 402      Construct cluster device name given the node name and the
0207 403      device prefix.
0207 404      INPUT
0207 405      R2 - Address of the node name string (in counted ASCII)
0207 406      R5 - Address of the device prefix
0207 407      OUTPUT
0207 408      FULL_NAME_PTR - contains address of complete device name string
0207 409      BOOSGL_CONDEV - contains pointer into complete device name string,
0207 410      starting at device prefix
0207 411      All registers preserved.
0207 412      FUNCTIONAL DESCRIPTION
0207 413      This routine builds a cluster device name of the form:
0207 414      byte      0: count of chars in string
0207 415      1 to m: node name
0207 416      m+1: '$'
0207 417      m+2 to m+4: "xxA" , where xx is the device name used by a given server
0207 418      :-- BLDNAME:
0207 419      PUSHR #^M<R0,R1,R2,R3,R4,R5>
0207 420      MOVAB FULL_NAME,R3 ; Pointer to output buffer
0207 421      MOVAB (R3)+,G^FULL NAME PTR ; Set up ptr for connect
0207 422      ASSUME SB$T_NODENAME+16,EQ,SB$L_DDB ; Make sure size doesn't change
0207 423      MOVZBL (R2)+,R4 ; Get real length of string
0207 424      PUSHR #^M<R2,R4,R5> ; Save regs destroyed by MOVC3
0207 425      MOVC3 R4,(R2),(R3) ; Store node name in buffer
0207 426      POPR #^M<R2,R4,R5> ; Restore regs (R3 now points to next
0207 427      MOVW #^A/$,(R3)+ ; byte in dest. buffer after node name)
0207 428      MOVB (R5),(R3) ; Set in separator
0207 429      MOVB #^A/A/,2(R3) ; Store device prefix
0207 430      ADDB3 #4,R4,FULL NAME ; Store controller letter
0207 431      MOVL (R3),DEVNAME+1 ; String is ASCII
0207 432      MOVB #3,DEVNAME ; Store device name
0207 433      MOVAB DEVNAME,BOOSGL_CONDEV ; Store count
0207 434      POPR #^M<R0,R1,R2,R3,R4,R5> ; Store address of device string
0207 435      RSB
0207 436      RSB
0207 437      RSB
0207 438      RSB
0207 439      RSB
0207 440      RSB
0207 441      RSB
0207 442      RSB
0207 443      RSB
0207 444      RSB
0207 445      RSB

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0251 447 .SBTTL EXIT_HANDLER
0251 448 ++ PURPOSE
0251 449 Cancel polling on mailbox (if any) at image exit.
0251 450 INPUT Saved SPPB addresses in PROC_INFO table.
0251 451 452 OUTPUT Cancelled polling.
0251 453 454 455 456 457 458 459 460
0251 461 .ENTRY EXIT_HANDLER, ^M<R2,R3,R4>
0253 462
0253 463 MOVAB PROC_INFO,R3 ; Get address of process info table
025A 464
025A 465 10$: MOVL (R3)+,R4 ; Point to next info block
025D 466 BEQL 20$ ; If EQL, end of table
00000033'EF 1B A4 D0 025F 467 MOVL SPPB(R4),SPPBARG ; Get address of SPPB
F1 13 0267 468 BEQL 10$ ; If EQL, we haven't polled for this process
0269 469 SCMKRNL_S routin=CANCEL_POLL,- ; Cancel polling
0269 470 arglist=KARGLST
1B A4 D4 027C 471 CLRL SPPB(R4) ; Show no more polling for this process
D9 11 027F 472 BRB 10$ ; Loop through table
0281 473
0281 474 20$: SDELMBX S chan=MBXCHAN ; Mark mailbox for deletion
028F 475 SCMEXEC_S routin=DQLOCKS ; Dequeue locks
50 01 3C 029E 476 MOVZWL #SSS_NORMAL,RO
04 02A1 477 RET
02A2 478
02A2 479
02A2 480 : Kernel mode routine running at IPL$_ASTDEL which cancels the polling mailbox.
02A2 481
0004 02A2 482 .ENTRY CANCEL_POLL,^M<R2>
02A4 483
02A4 484 SETIPL #IPL$_ASTDEL
00000000'EF 02A7 485 MOVL 4(AP),R1 ; Get SPPB address
16 02AB 486 JSB SCSSCANCEL_MBX ; Cancel polling
02B1 487 SETIPL #0
04 02B4 488 RET
02B5 489
02B5 490
02B5 491 : Exec mode routine to dequeue all locks held
02B5 492
0000 02B5 493 .ENTRY DQLOCKS,^M<>
02B7 494
02B7 495 $DEQ_S lkid = #0,-
02B7 496 flags = #LCK$M_DEQALL
04 02C6 497 RET
02C7 498
02C7 499 .END

```

\$ST1	= 00000000		SYSSCMEXEC	*****	GX	05
\$NAMEND\$	= 0000002F R	03	SYSSCMKRL	*****	GX	05
\$\$ERVERNAMES	= 0000001F R	03	SYSSCREMBX	*****	GX	05
BLDNAME	= 00000207 R	05	SYSSDCLEXH	*****	GX	05
BOOS\$CONFIGURE	= 00000008 RG	05	SYSSDELMBX	*****	GX	05
BOOS\$CONNECT	***** X	05	SYSSDEQ	*****	GX	05
BOOS\$CONRESET	***** X	05	SYSSSEXIT	*****	GX	05
BOO\$GL_CONADP	***** X	05	SYSSHIBER	*****	GX	05
BOO\$GL_CONAUNIT	***** X	05	SYSSPURGWS	*****	GX	05
BOO\$GL_CONCUNIT	***** X	05	SYSSQIO	*****	GX	05
BOO\$GL_CONDEV	***** X	05	SYSGS_CANTPOLL	= 007C813A		
BOO\$GL_CONDREV	***** X	05	SYSGS_CONFIGERR	= 007C8132		
BOO\$GQ_CONSYSID	***** X	05	WRTATNFLG	= 00000123		
CANCEL_POLL	000002A2 RG	05				
DEVICE	= 00000010					
DEVNAME	= 00000016 R	04				
DQLOCKS	= 000002B5 RG	05				
DRIVER	= 00000012					
EXIT_BLOCK	= 0000001B R	04				
EXIT_HANDLER	= 00000251 RG	05				
EXIT_STATUS	= 0000002B R	04				
FOUND PROC	= 000000CE RG	05				
FULL_NAME	= 00000000 R	04				
FULL_NAME_PTR	***** X	05				
IOSM_NOW	= 00000040					
IOSM_WRTATTN	= 00000100					
IOS_READVBLK	= 00000031					
IOS_SETMODE	= 00000023					
IPLS_ASTDEL	= 00000002					
IPLS_SCS	= 00000008					
KARGEST	= 0000002F R	04				
LCKSM_DEQALL	= 00000001					
MBXCHAN	= 00000073 R	04				
MSGBUF	= 0000003B R	04				
MSGBUFSIZ	= 00000037 R	04				
PR\$ IPL	***** X	05				
PRCPOL\$B_PRCNAM	= 00000018					
PRCPOL\$C_SIZ	= 00000038					
PRCPOL\$L_SYSIDL	= 00000000					
PRCPOL\$T_NODNAM	= 00000008					
PROCESS_MSG	= 0000015F R	05				
PROC_INFO	= 00000000 RR	02				
PURGE LIMITS	= 00000000 R	05				
PUTERROR	***** X	05				
READFLG	= 00000071					
REQ POLL	= 0000009C R	05				
SB\$C_DDB	= 00000054					
SB\$T_NODENAME	= 00000044					
SCSS\$CANCEL_MBX	***** X	05				
SCSS\$POLL_MBX	***** X	05				
SCSS\$POLL_MODE	***** X	05				
SERVER	= 00000000					
SPPB	= 0000001B					
SPPBARG	= 00000033 R	04				
SS\$_ENDOFFILE	= 00000870					
SS\$_NORMAL	= 00000001					
STATUS_BLOCK	= 00000075 R	04				

+-----+
 ! Psect synopsis !
 +-----+

PSECT name	Allocation	PSECT No.	Attributes																
. ABS .	00000000	(0.)	00 (0.)	NOPIE	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE					
\$ABSS	00000000	(0.)	01 (1.)	NOPIE	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					
INFO_PTR	0000001C	(28.)	02 (2.)	NOPIE	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					
INFO_BLOCK	000000BA	(186.)	03 (3.)	NOPIE	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					
NONPAGED_DATA	0000007D	(125.)	04 (4.)	NOPIE	USR	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	NOVEC	BYTE					
PAGED_CODE	000002C7	(711.)	05 (5.)	NOPIE	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE					

+-----+
 ! Performance indicators !
 +-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.05	00:00:00.54
Command processing	115	00:00:00.69	00:00:01.93
Pass 1	320	00:00:10.32	00:00:21.76
Symbol table sort	0	00:00:01.50	00:00:03.69
Pass 2	98	00:00:02.12	00:00:03.49
Symbol table output	9	00:00:00.12	00:00:02.67
Psect synopsis output	3	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	576	00:00:14.83	00:00:34.11

The working set limit was 1500 pages.

57546 bytes (113 pages) of virtual memory were used to buffer the intermediate code.

There were 60 pages of symbol table space allocated to hold 1005 non-local and 15 local symbols.

499 source lines were read in Pass 1, producing 35 object records in Pass 2.

33 pages of virtual memory were used to define 31 macros.

+-----+
 ! Macro library statistics !
 +-----+

Macro library name	Macros defined
\$255\$DUA28:[BOOTS.OBJ]BOOTS.MLB;1	0
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	6
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	21
TOTALS (all libraries)	27

1176 GETS were required to define 27 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:CONFIGURE/OBJ=OBJ\$:CONFIGURE MSRC\$:CONFIGURE/UPDATE=(ENH\$:CONFIGURE)+EXECMLS/LIB+LIBS:BOOTS.MLB/LIB

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VAX/VMS V4.0

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CONFIG
LIS

BTMEM855
LIS

BTMEM790
LIS

CONFIGURE
LIS

BOOTDEF
LIS

BOOTIO
LIS

BOOTDRIVR
LIS

BOOTBLOCK
LIS

BTMEM200
LIS

BTMEM250
LIS

BTMEM280
LIS

CONFIGMN
LIS

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